

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
 Data File : BF079557.D
 Acq On : 28 May 2015 21:27
 Operator : TP/IZ
 Sample : G2294-10
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB407A(3-3.5)

Manual Integrations
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Quant Time: May 29 09:09:05 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 18:41:08 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	79226	20.00	ng	0.00
21) Naphthalene-d8	8.54	136	319974	20.00	ng	0.00
38) Acenaphthene-d10	10.71	164	159916	20.00	ng	0.00
63) Phenanthrene-d10	12.54	188	294435	20.00	ng	0.00
75) Chrysene-d12	15.82	240	298810	20.00	ng	-0.02
86) Perylene-d12	17.52	264	307925	20.00	ng	-0.15
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	442059	96.78	ng	0.01
7) Phenol-d6	6.57	99	600861	103.20	ng	0.01
23) Nitrobenzene-d5	7.67	82	378055	68.30	ng	0.00
41) 2,4,6-Tribromophenol	11.69	330	171620	97.71	ng	0.00
44) 2-Fluorobiphenyl	9.88	172	708729	63.23	ng	0.00
78) Terphenyl-d14	14.54	244	739689	58.09	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.57	128	91777	5.98	ng	99
37) 2-Methylnaphthalene	9.43	142	32593	3.06	ng	96
48) Acenaphthylene	10.54	152	130419	7.96	ng	99
49) Dimethylphthalate	10.40	163	80144	6.80	ng	100
51) Acenaphthene	10.74	154	27208	2.91	ng	97
54) Dibenzofuran	10.96	168	31749	2.30	ng	99
57) Fluorene	11.38	166	26050m	2.29	ng	
70) Phenanthrene	12.57	178	438941	27.17	ng	100
71) Anthracene	12.64	178	197398	12.04	ng	99
72) Carbazole	12.85	167	66045	4.18	ng	98
74) Fluoranthene	14.05	202	897192	51.79	ng	97
77) Pvrene	14.32	202	964918	52.12	ng	# 96
80) Benzo(a)anthracene	15.81	228	785645m	45.70	ng	
82) Chrysene	15.85	228	638118	39.06	ng	97
85) Indeno(1,2,3-cd)pyrene	18.82	276	863107m	41.07	ng	
87) Benzo(b)fluoranthene	17.10	252	1234426m	70.29	ng	
88) Benzo(k)fluoranthene	17.12	252	440746m	28.06	ng	
89) Benzo(a)pyrene	17.46	252	1002607	66.00	ng	# 94
90) Dibenzo(a,h)anthracene	18.83	278	222429m	12.71	ng	
91) Benzo(a,h,i)perylene	19.21	276	830567	51.31	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

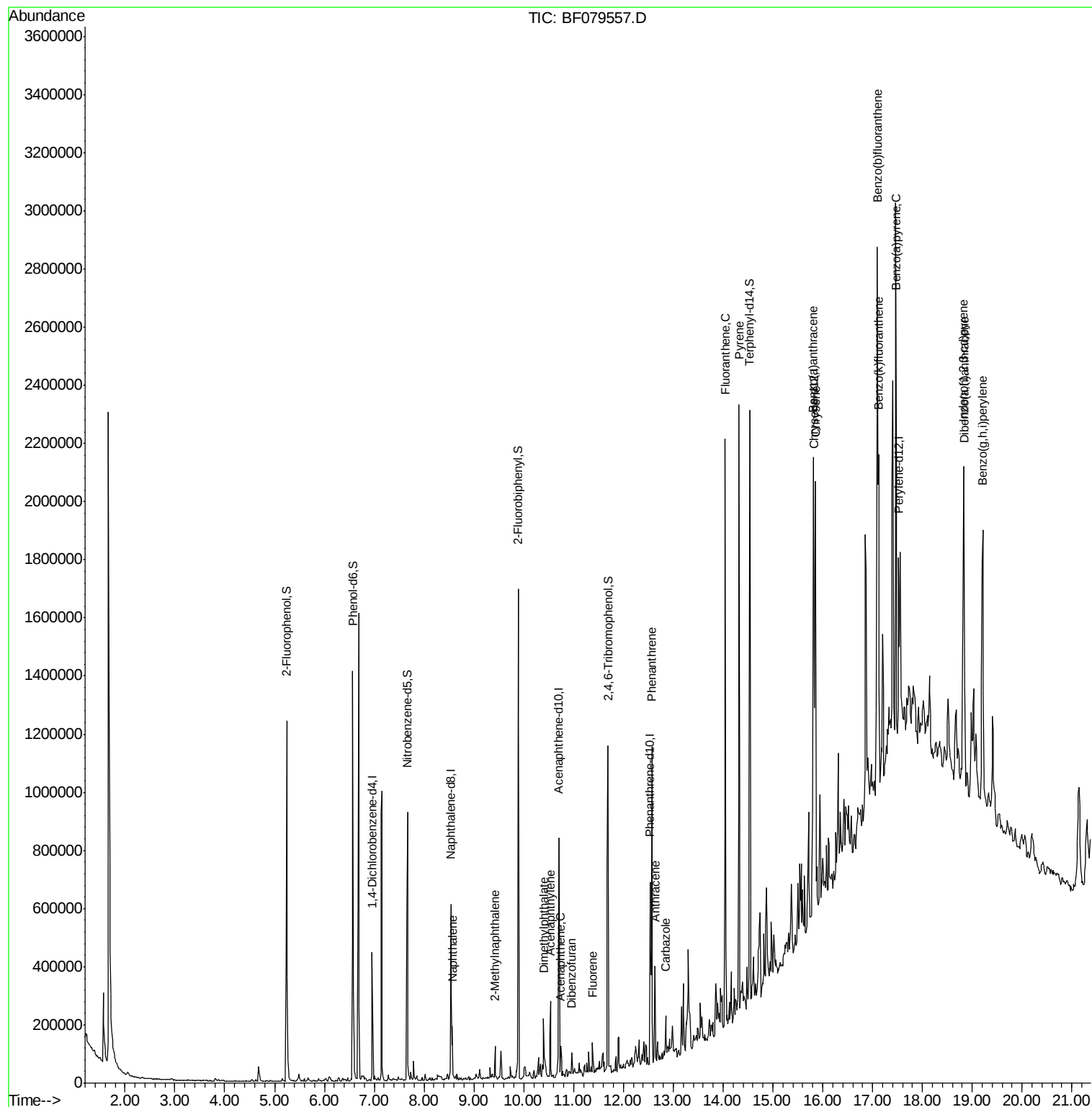
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\
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HY-SB407A(3-3.5)

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#1

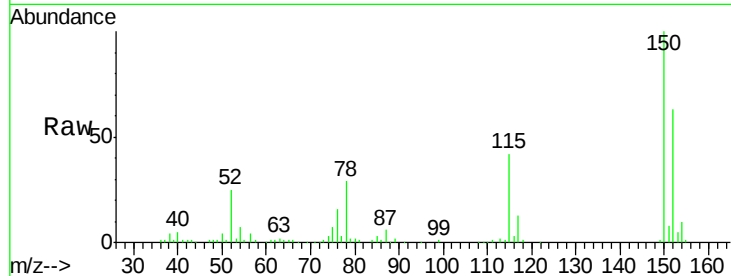
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.96 min Scan# 505
Delta R.T. 0.00 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	124.0	186.0
115	67.2	49.6	74.4

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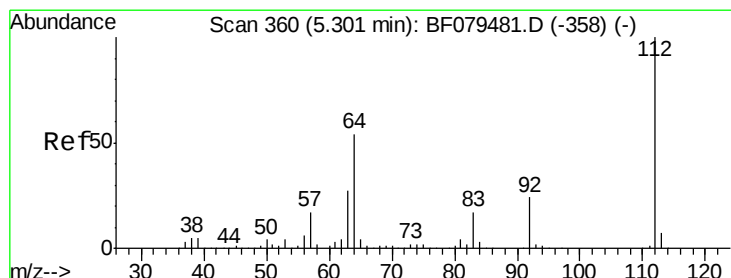
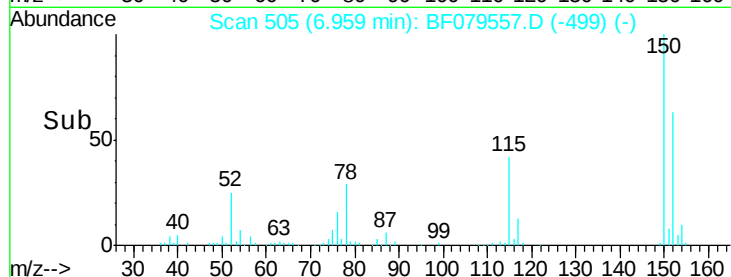
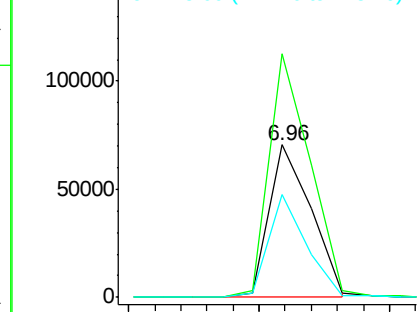


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

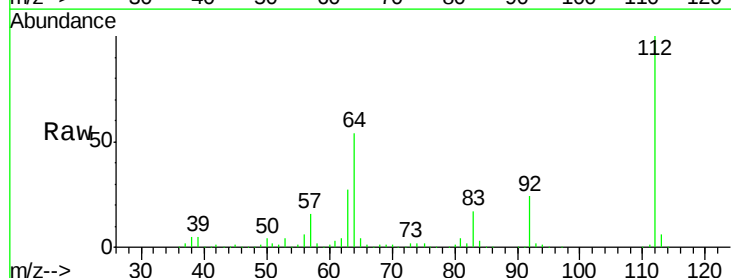
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 96.78 ng
RT: 5.24 min Scan# 355
Delta R.T. 0.01 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.7	43.5	65.3
63	27.2	21.8	32.8

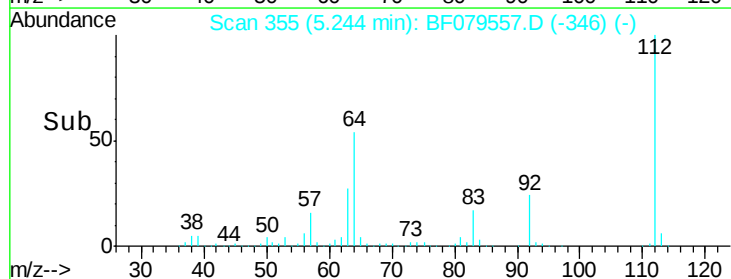
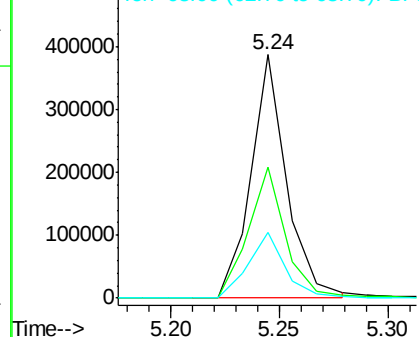


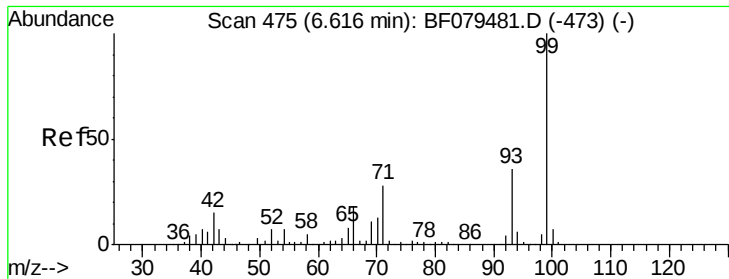
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 103.20 ng

RT: 6.57 min Scan# 471

Delta R.T. 0.01 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Instrument :

BNA_F

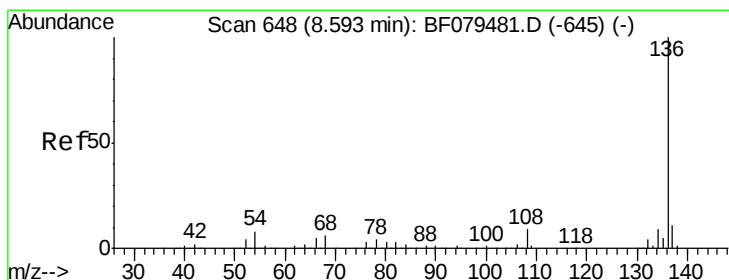
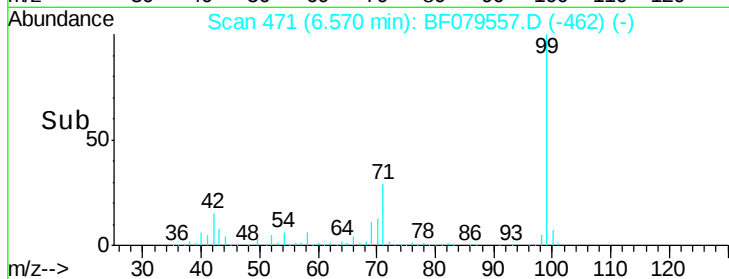
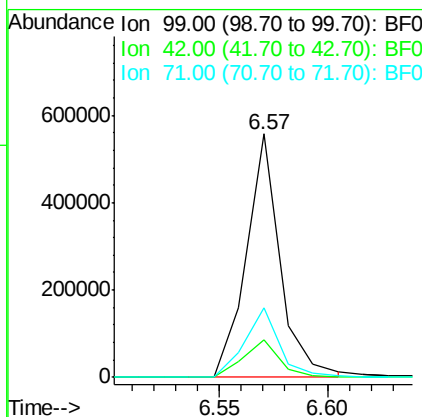
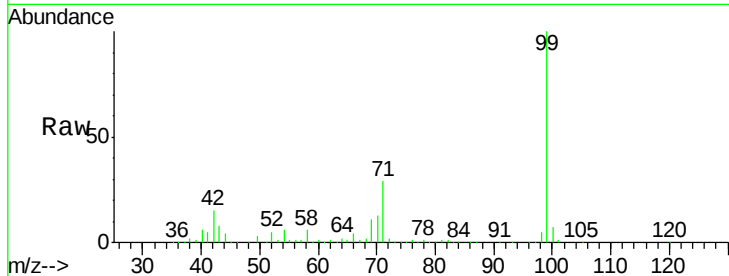
ClientSampleId :

HY-SB407A(3-3.5)

Tot Ion:	99	Resp:	600861
Ion Ratio	Lower	Upper	
99	100		
42	15.5	11.9	17.9
71	28.8	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

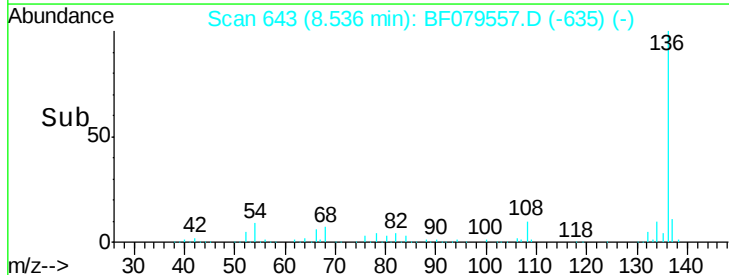
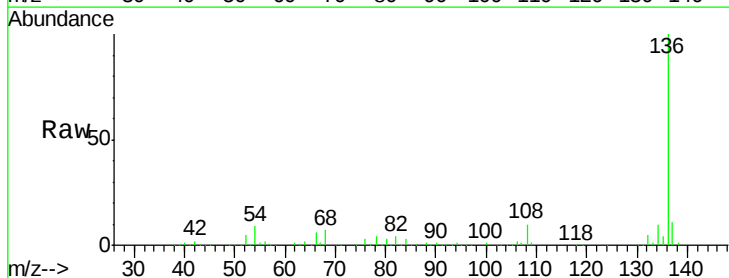
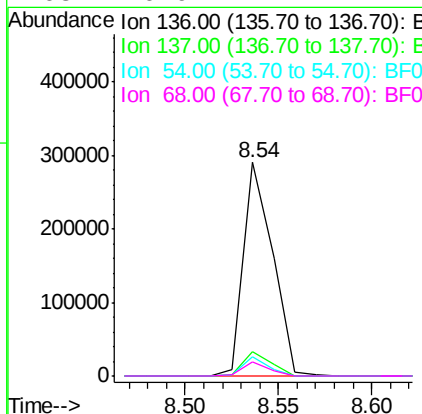
RT: 8.54 min Scan# 643

Delta R.T. 0.00 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Tgt Ion:	136	Resp:	319974
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	9.3	6.6	9.8
68	6.9	4.7	7.1





#23

Nitrobenzene-d5

Concen: 68.30 ng

RT: 7.67 min Scan# 567

Delta R.T. 0.00 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Instrument :

BNA_F

ClientSampleId :

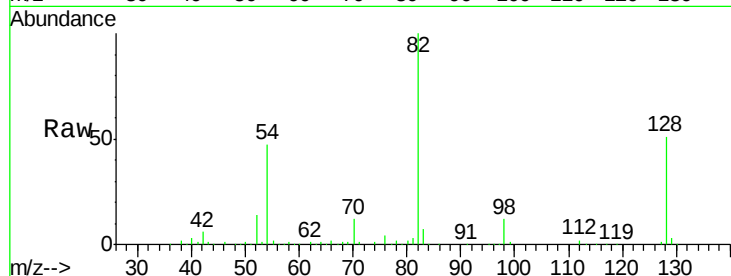
HY-SB407A(3-3.5)

Tot Ion: 82 Resp: 378055
Ion Ratio Lower Upper

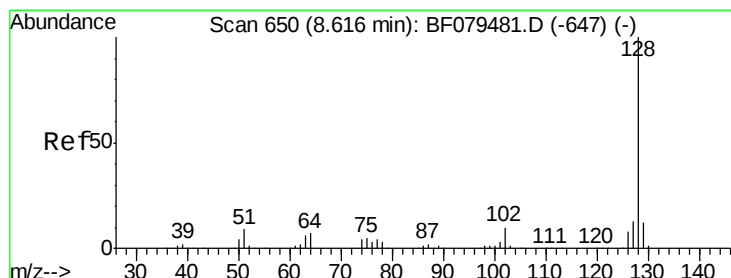
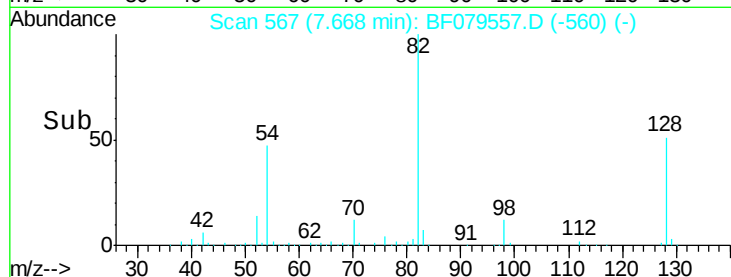
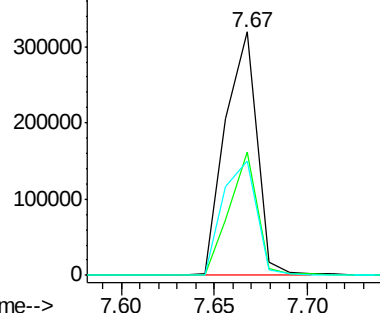
82	100		
128	50.7	30.8	46.2#
54	47.1	42.8	64.2

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Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 5.98 ng

RT: 8.57 min Scan# 646

Delta R.T. 0.00 min

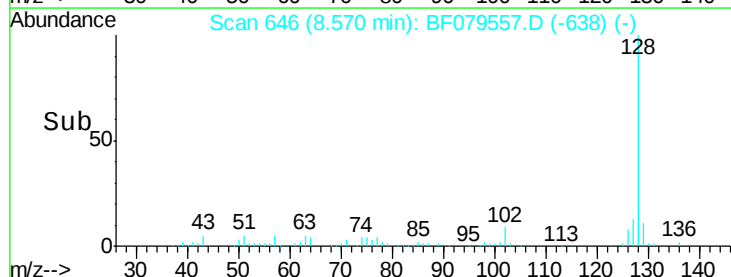
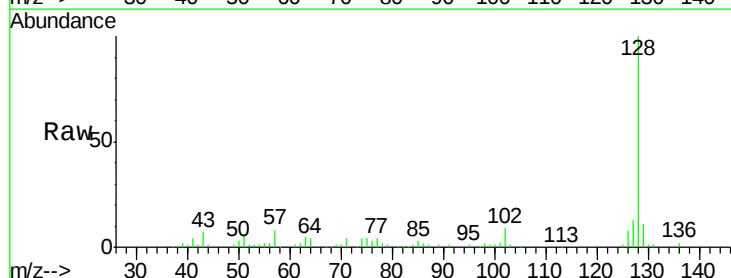
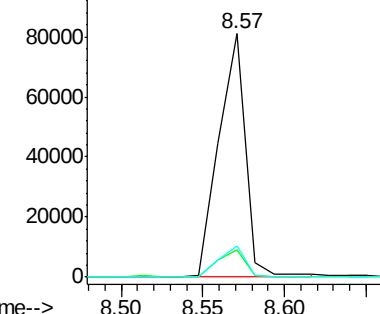
Lab File: BF079557.D

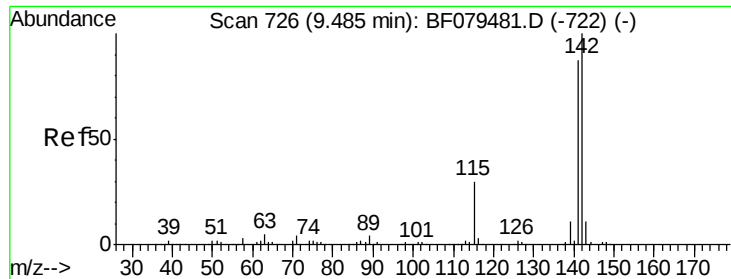
Acq: 28 May 2015 21:27

Tgt Ion: 128 Resp: 91777
Ion Ratio Lower Upper

128	100		
129	11.1	9.3	13.9
127	12.7	10.6	15.8

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





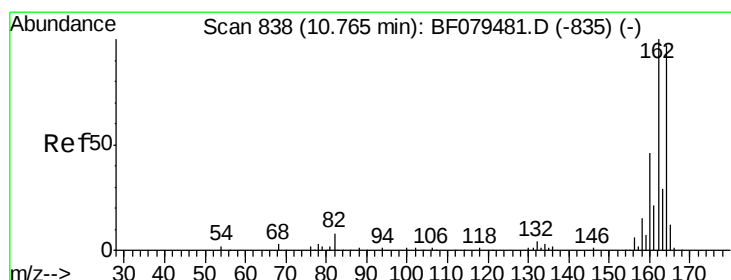
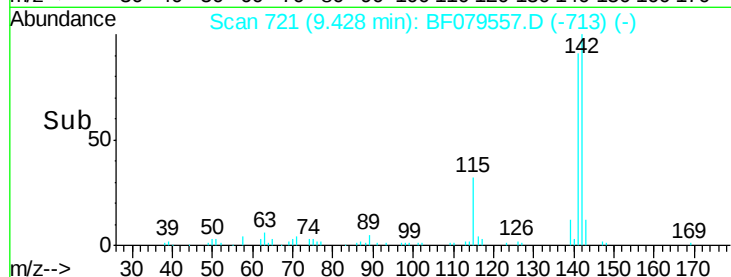
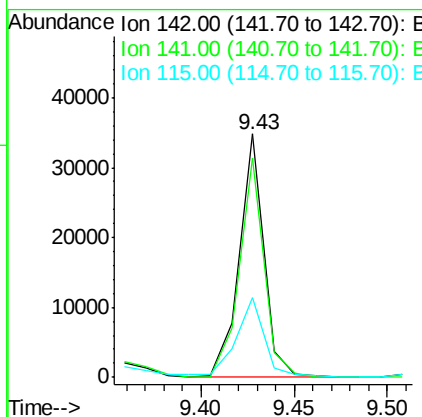
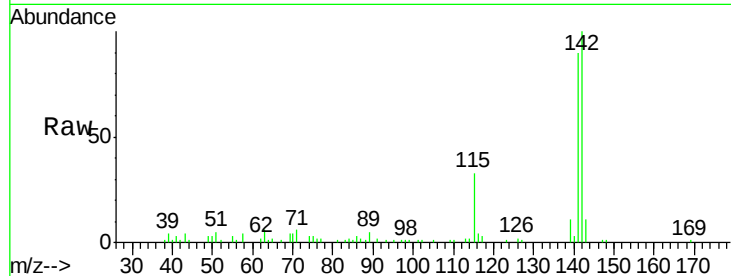
#37
2-Methylnaphthalene
Concen: 3.06 ng
RT: 9.43 min Scan# 721
Delta R.T. 0.00 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	69.5	104.3
115	32.6	23.8	35.6

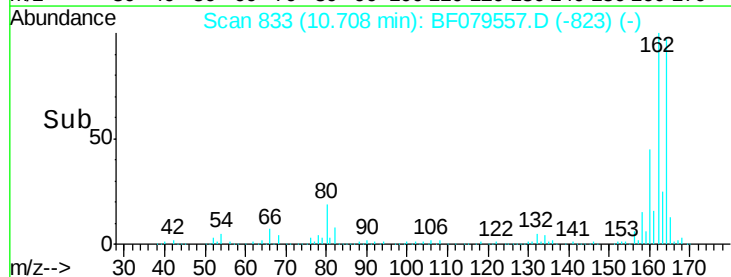
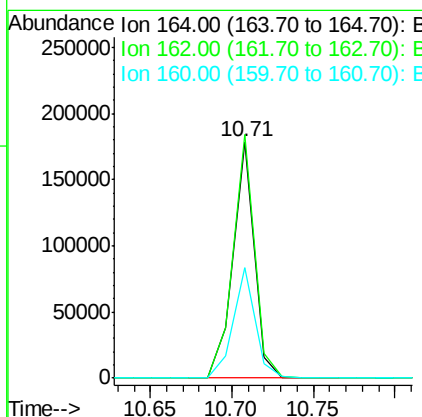
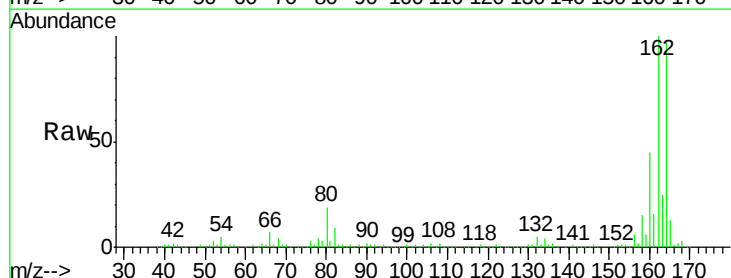
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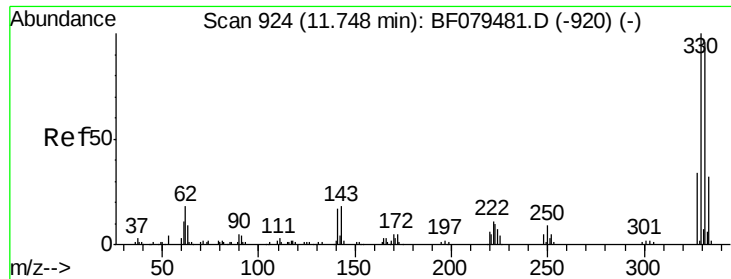
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.71 min Scan# 833
Delta R.T. 0.00 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.6	124.0
160	46.6	37.7	56.5





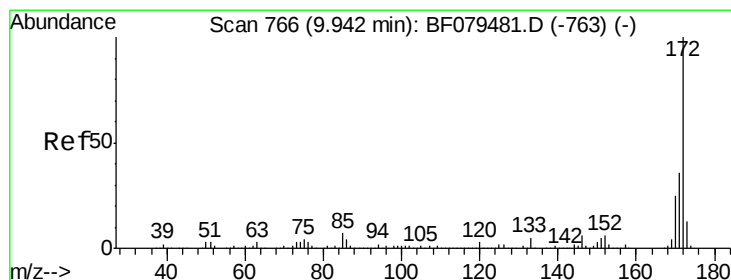
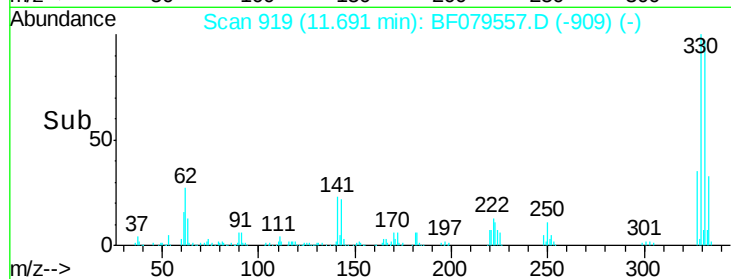
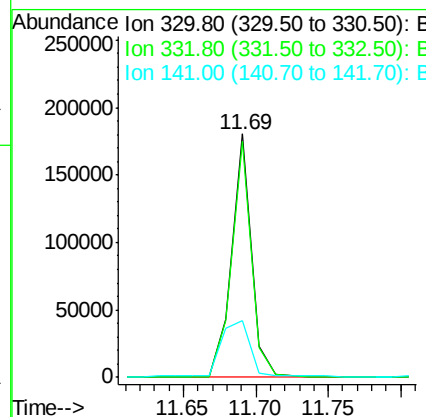
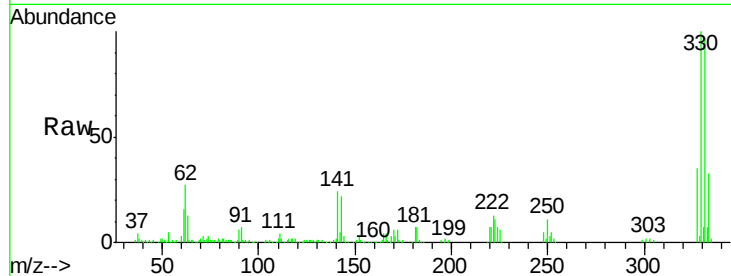
#41
 2,4,6-Tribromophenol
 Concen: 97.71 ng
 RT: 11.69 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BF079557.D
 Acq: 28 May 2015 21:27

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB407A(3-3.5)

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	97.1	0.0	0.0#
141	35.0	0.0	0.0#

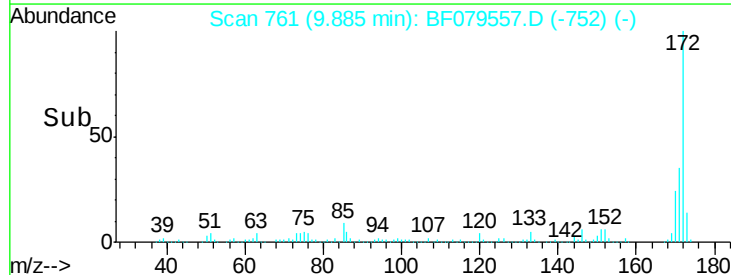
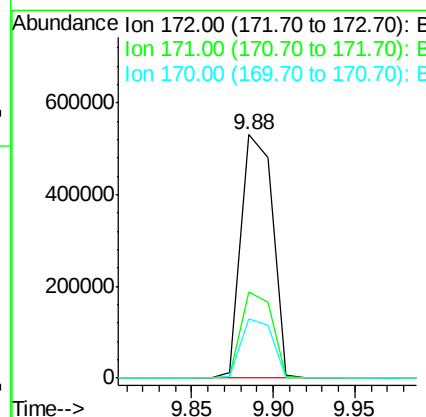
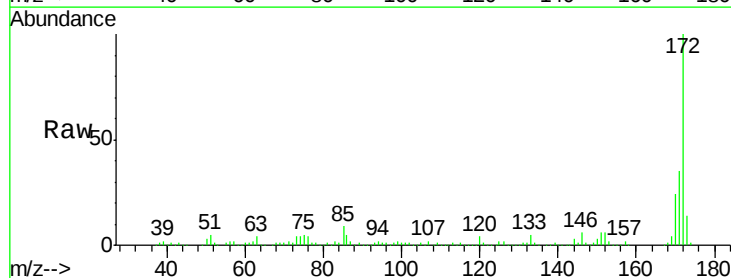
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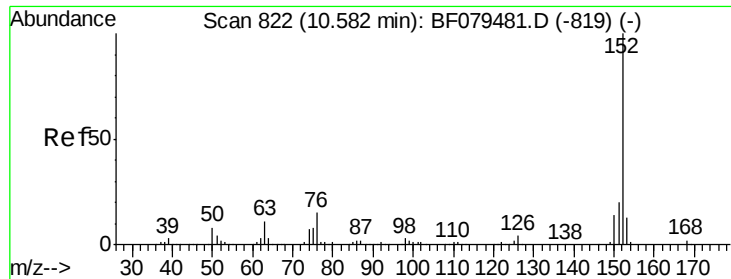
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#44
 2-Fluorobiphenyl
 Concen: 63.23 ng
 RT: 9.88 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: BF079557.D
 Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	35.3	28.5	42.7
170	24.2	19.7	29.5





#48

Acenaphthylene

Concen: 7.96 ng

RT: 10.54 min Scan# 818

Delta R.T. 0.00 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Instrument :

BNA_F

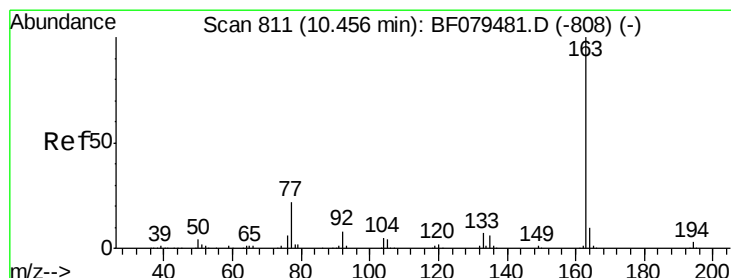
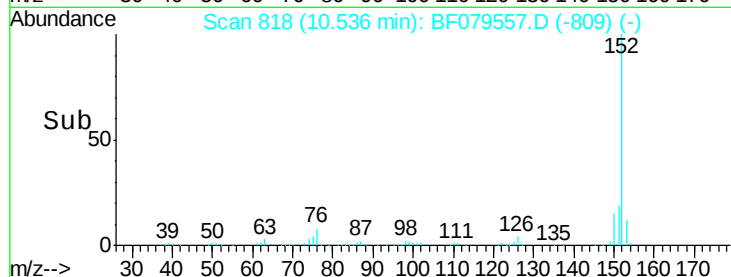
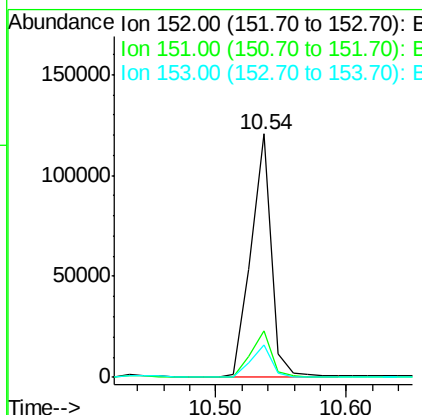
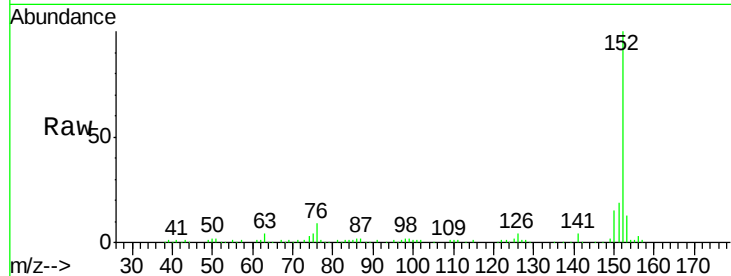
ClientSampleId :

HY-SB407A(3-3.5)

Tot Ion:	152	Resp:	130419
Ion Ratio	Lower	Upper	
152	100		
151	19.3	15.8	23.8
153	13.2	10.7	16.1

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#49

Dimethylphthalate

Concen: 6.80 ng

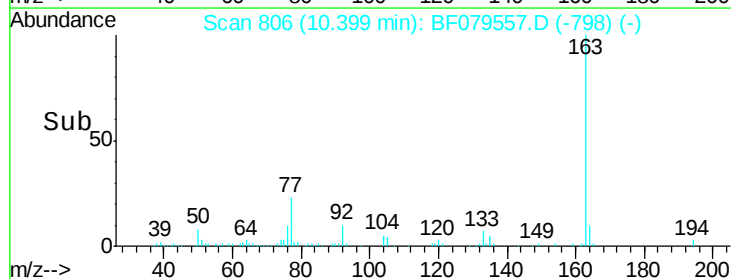
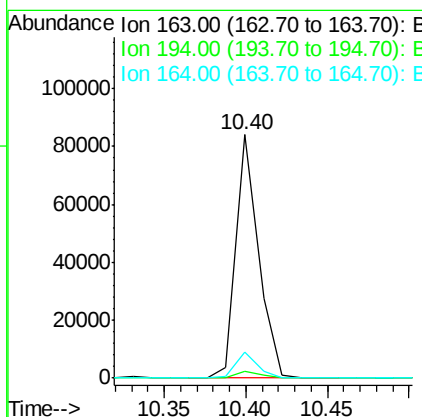
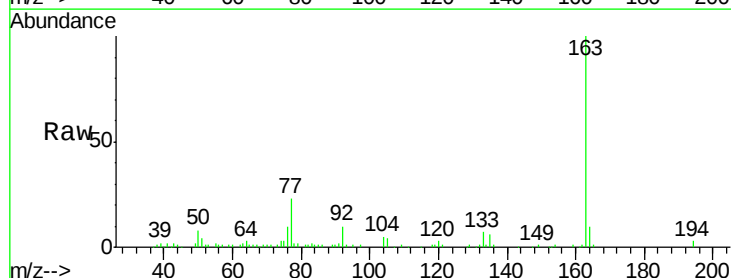
RT: 10.40 min Scan# 806

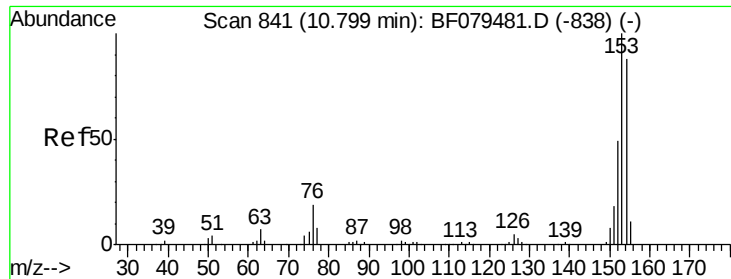
Delta R.T. -0.01 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Tgt Ion:	163	Resp:	80144
Ion Ratio	Lower	Upper	
163	100		
194	3.0	2.4	3.6
164	10.5	8.2	12.4





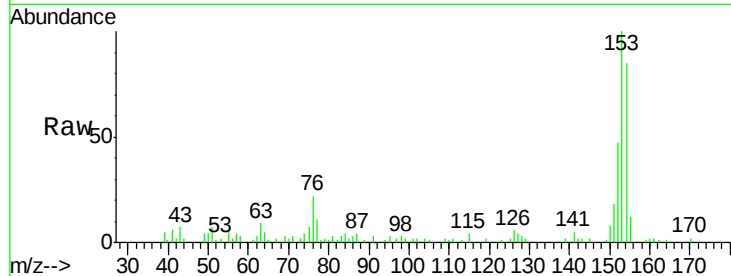
#51
Acenaphthene
Concen: 2.91 ng
RT: 10.74 min Scan# 836
Delta R.T. 0.00 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

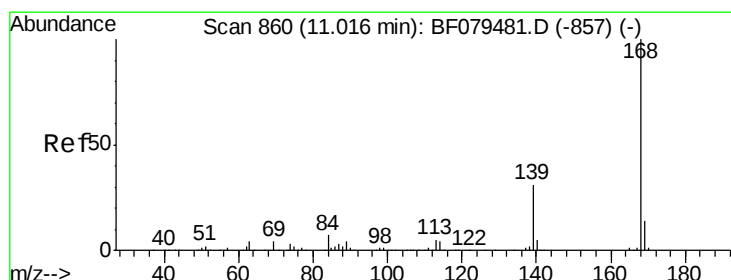
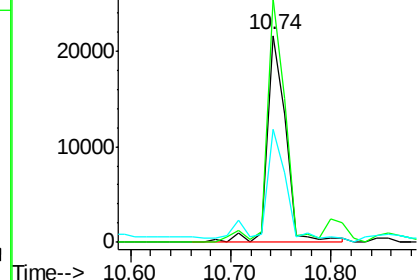
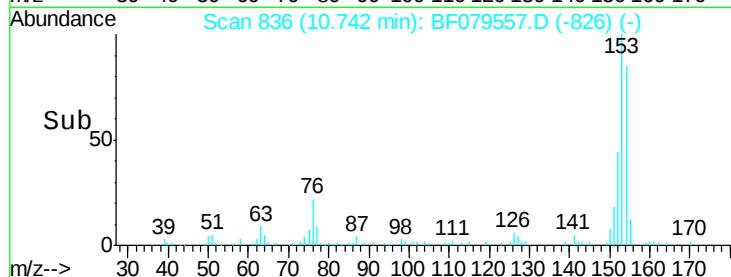
Tot Ion	Ratio	Lower	Upper
154	100		
153	117.9	91.1	136.7
152	54.9	44.6	66.8

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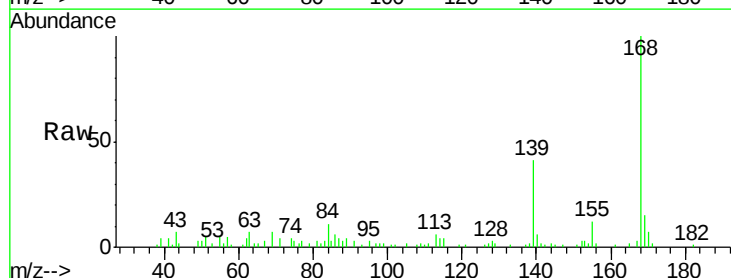


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

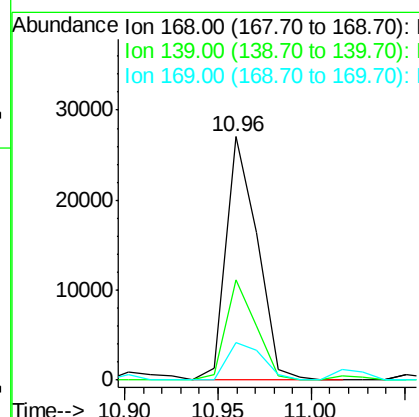
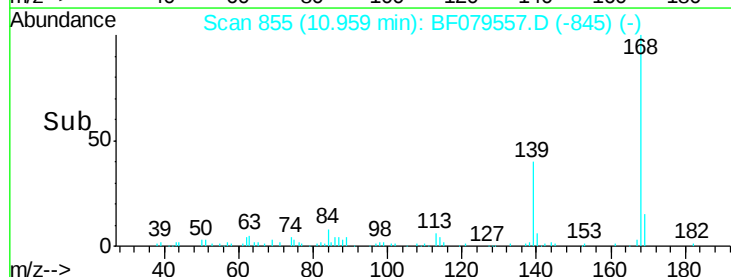


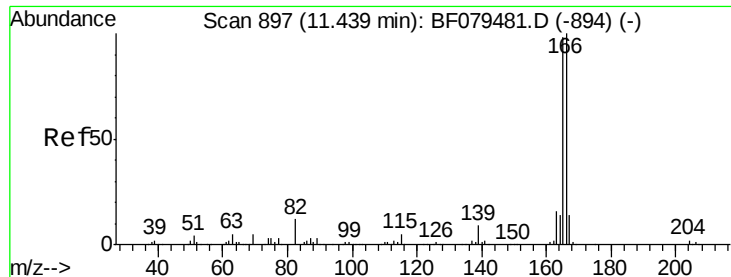
#54
Dibenzofuran
Concen: 2.30 ng
RT: 10.96 min Scan# 855
Delta R.T. 0.00 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
168	100		
139	41.4	32.9	49.3
169	15.4	11.1	16.7



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





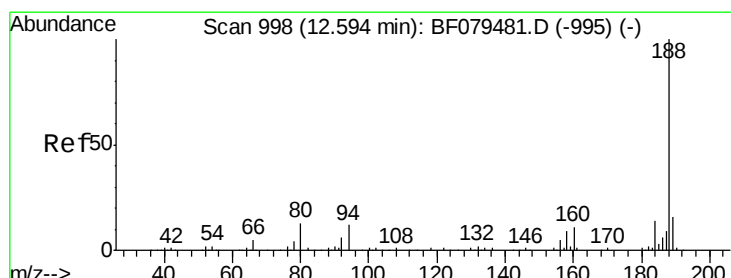
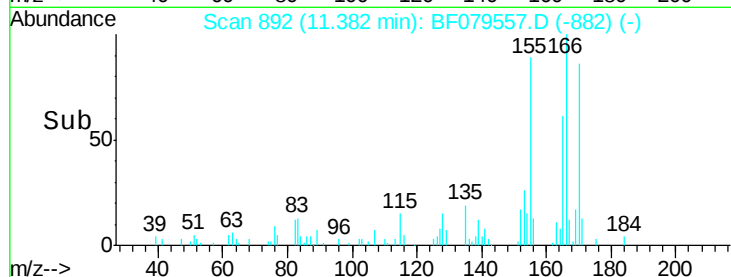
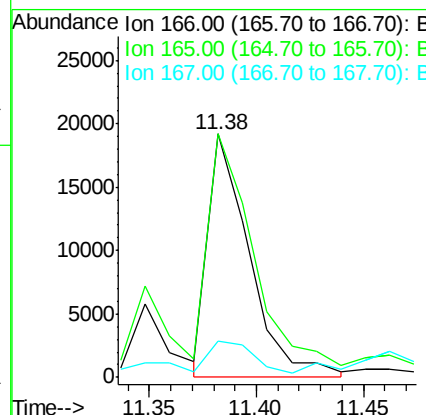
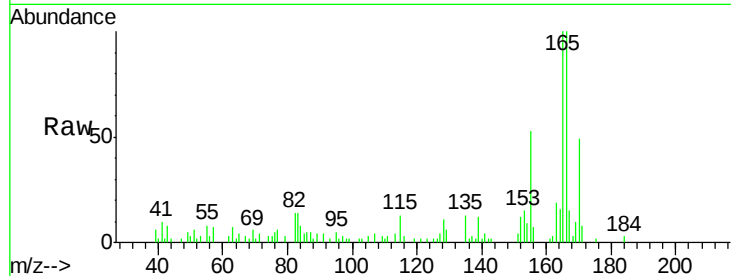
#57
Fluorene
 Concen: 2.29 ng/ml
 RT: 11.38 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: BF079557.D
 Acq: 28 May 2015 21:27

Instrument :
 BNA_F
 ClientSampleID :
 HY-SB407A(3-3.5)

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	100.0	78.6	117.8	
167	15.0	10.8	16.2	

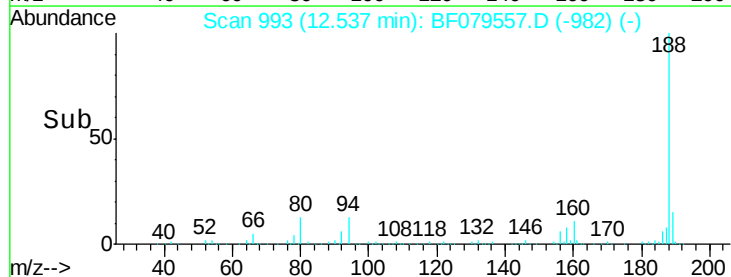
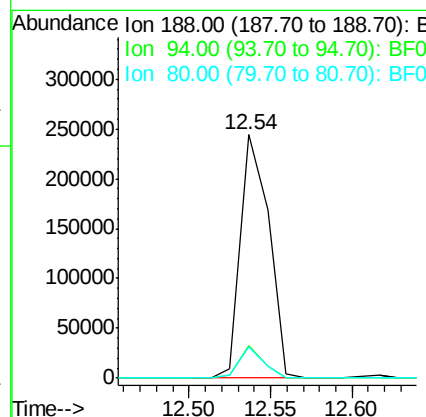
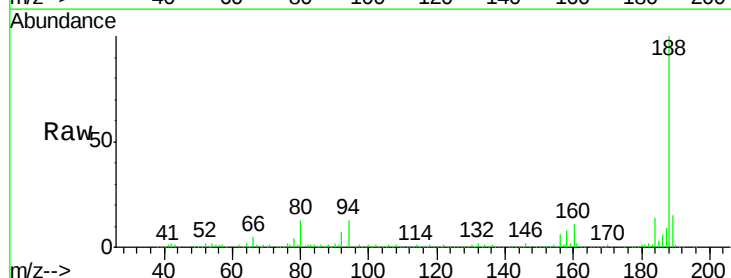
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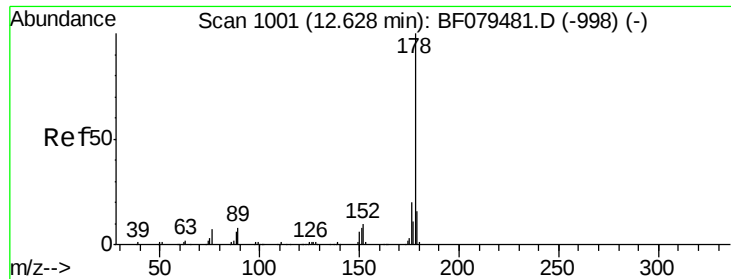
apatel
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.54 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: BF079557.D
 Acq: 28 May 2015 21:27

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	13.2	9.8	14.6	
80	13.0	10.5	15.7	





#70

Phenanthrene

Concen: 27.17 ng

RT: 12.57 min Scan# 996

Delta R.T. 0.00 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Instrument :

BNA_F

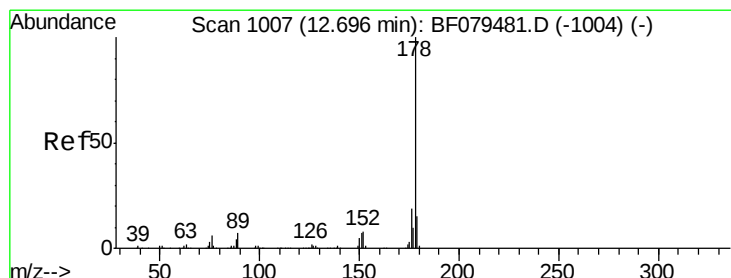
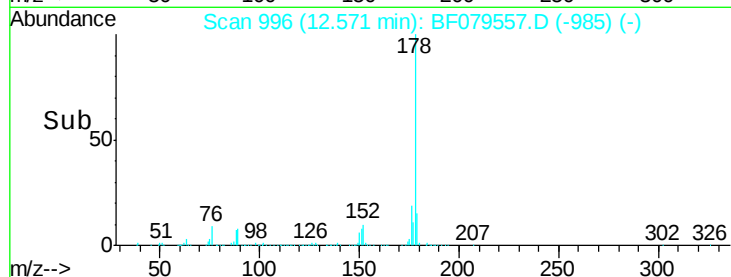
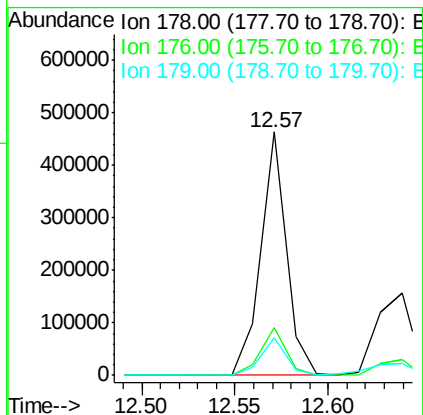
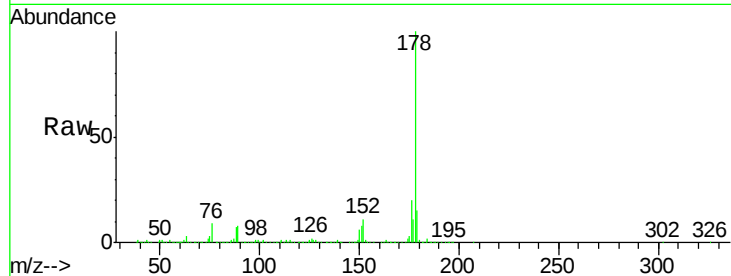
ClientSampleId :

HY-SB407A(3-3.5)

Tot Ion:	178	Resp:	438941
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.7	23.5
179	15.3	12.4	18.6

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#71

Anthracene

Concen: 12.04 ng

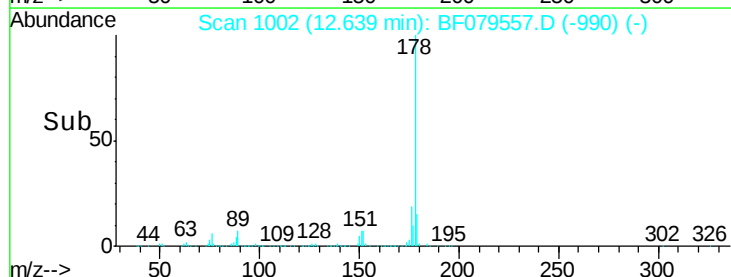
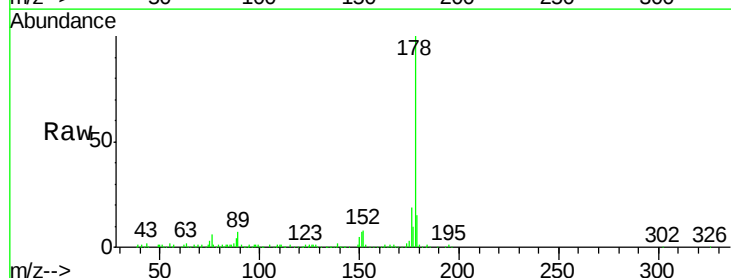
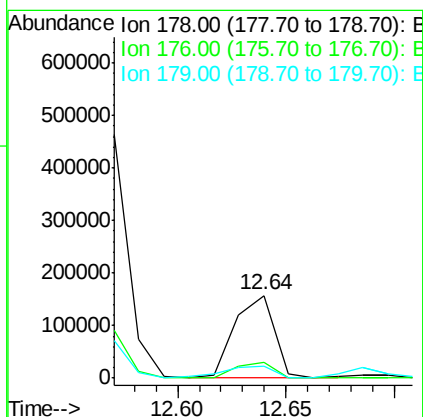
RT: 12.64 min Scan# 1002

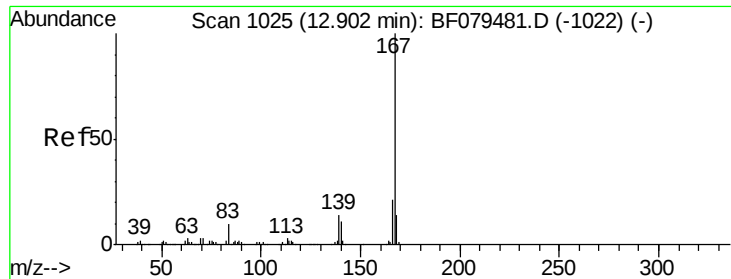
Delta R.T. 0.01 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Tgt Ion:	178	Resp:	197398
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.3	22.9
179	15.1	12.2	18.4





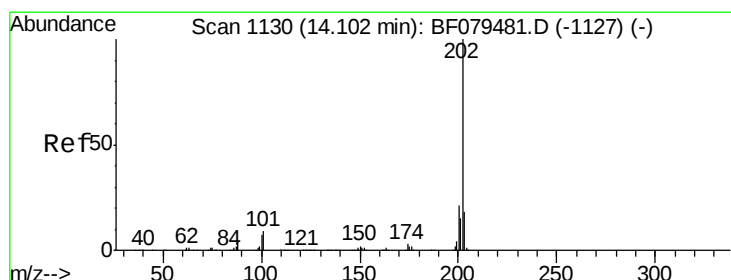
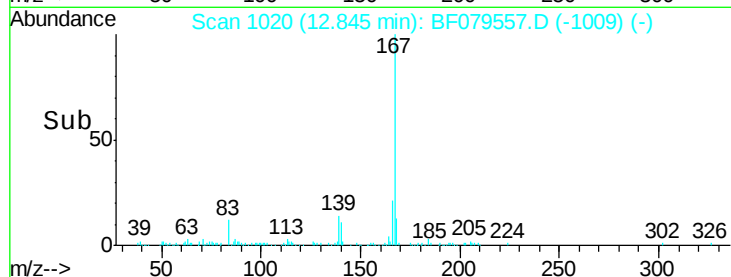
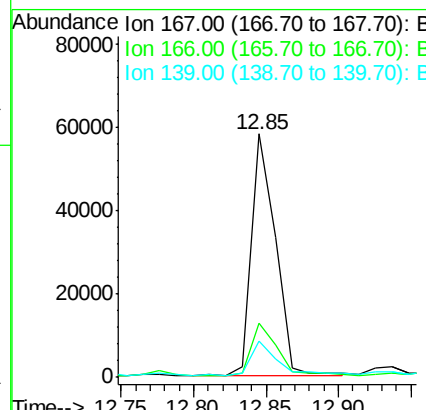
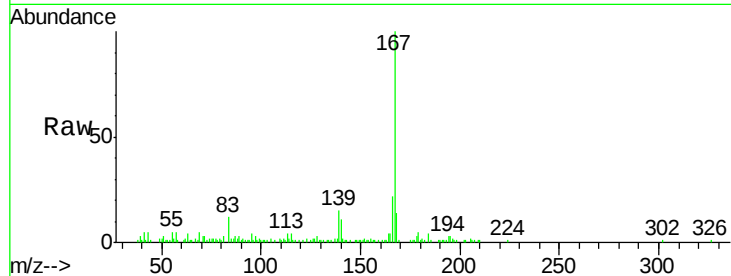
#72
 Carbazole
 Concen: 4.18 ng
 RT: 12.85 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: BF079557.D
 Acq: 28 May 2015 21:27

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB407A(3-3.5)

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.0	25.4
139	15.0	11.2	16.8

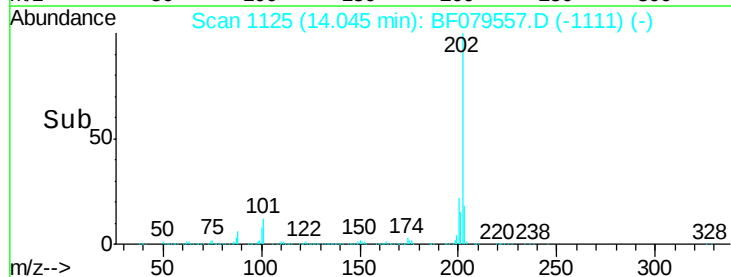
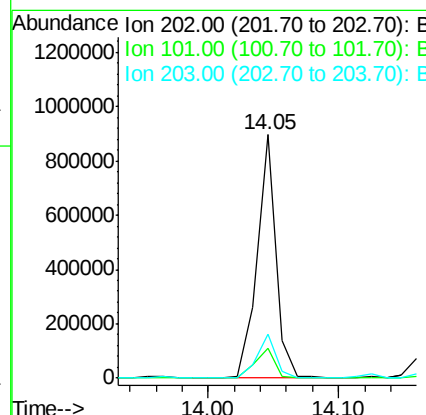
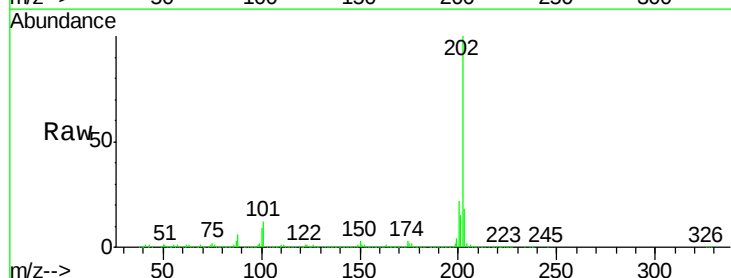
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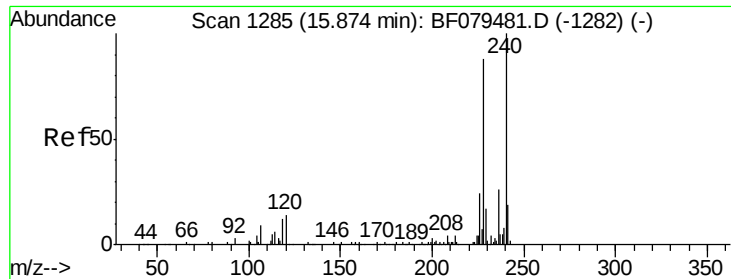
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#74
 Fluoranthene
 Concen: 51.79 ng
 RT: 14.05 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: BF079557.D
 Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	29.3
203	17.9	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.82 min Scan# 1280

Delta R.T. -0.02 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Instrument :

BNA_F

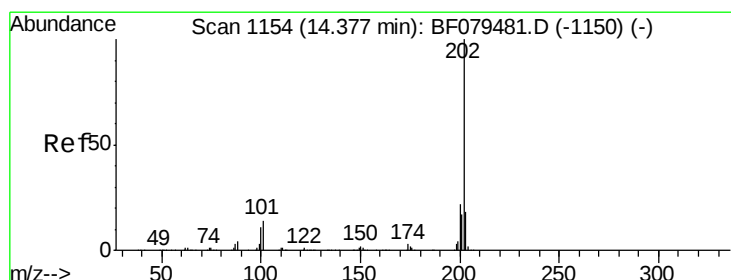
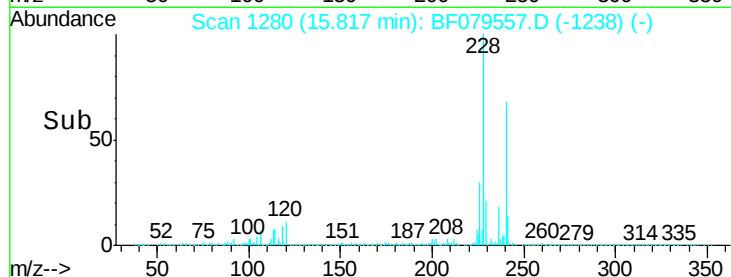
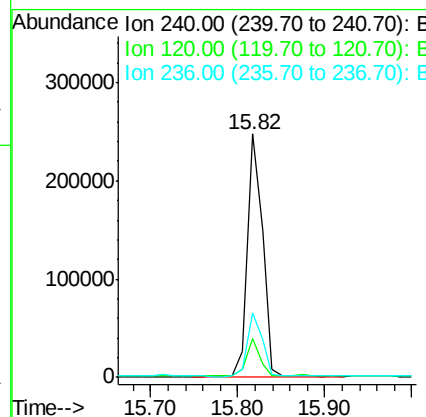
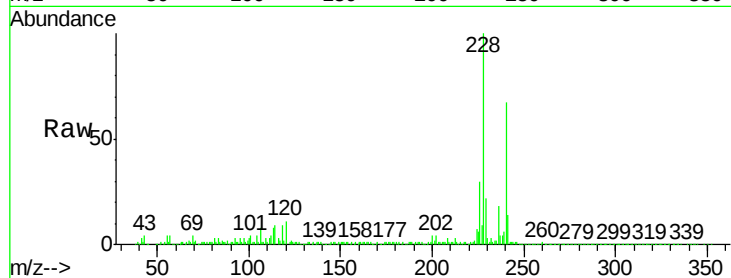
ClientSampleId :

HY-SB407A(3-3.5)

Tot Ion:	240	Resp:	298810
Ion Ratio	Lower	Upper	
240	100		
120	16.1	10.8	16.2
236	26.3	21.0	31.6

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#77

Pyrene

Concen: 52.12 ng

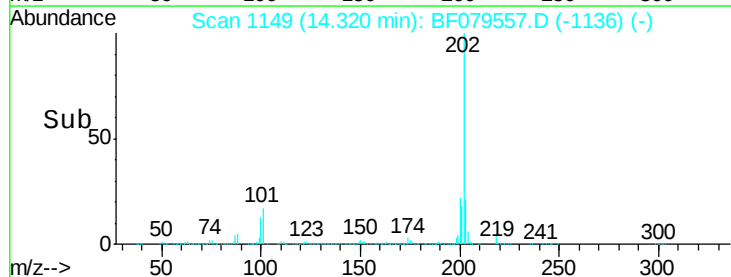
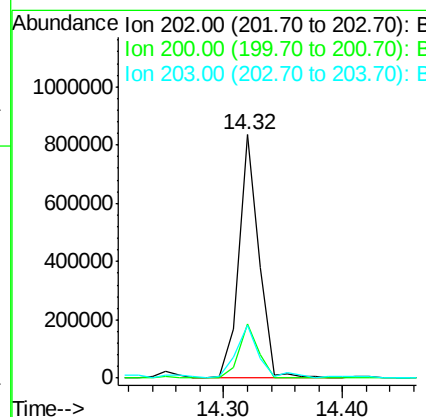
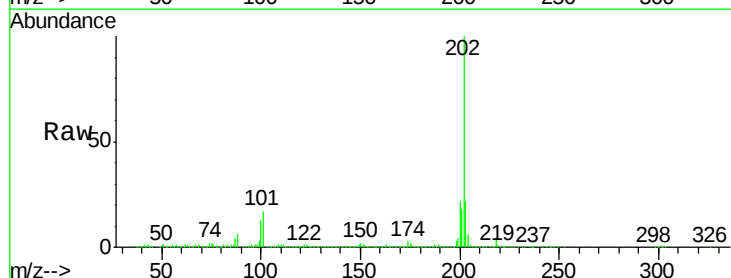
RT: 14.32 min Scan# 1149

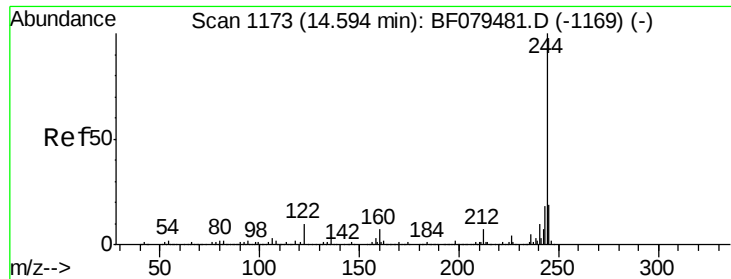
Delta R.T. 0.00 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Tgt Ion:	202	Resp:	964918
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.5	26.3
203	21.7	14.4	21.6#





#78

Terphenyl-d14

Concen: 58.09 ng

RT: 14.54 min Scan# 1168

Delta R.T. 0.00 min

Lab File: BF079557.D

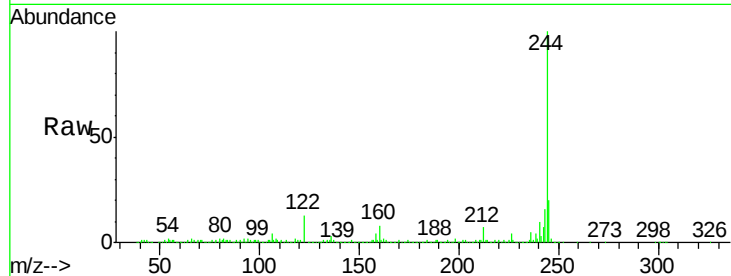
Acq: 28 May 2015 21:27

Instrument :

BNA_F

ClientSampleId :

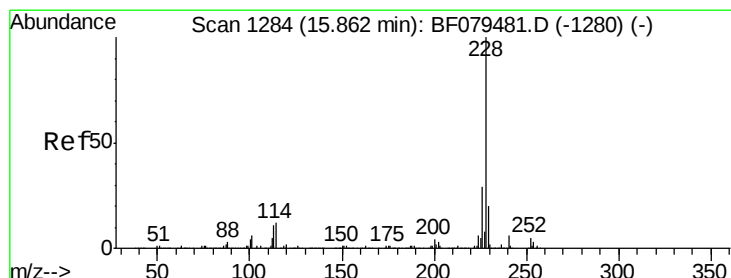
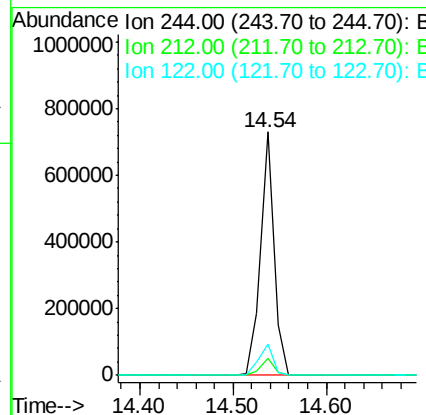
HY-SB407A(3-3.5)



Tot Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	6.9	5.2	7.8		
122	12.8	8.0	12.0		

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#80

Benzo(a)anthracene

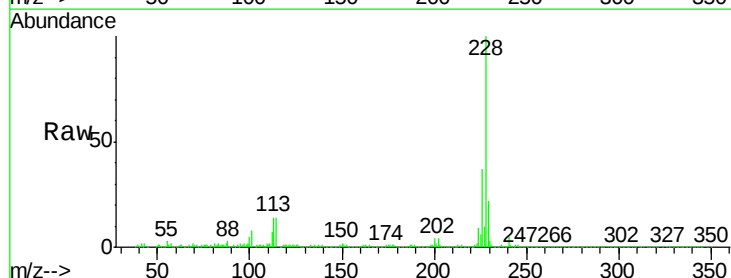
Concen: 45.70 ng m

RT: 15.81 min Scan# 1279

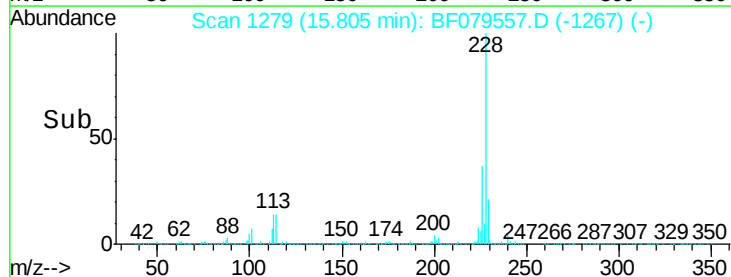
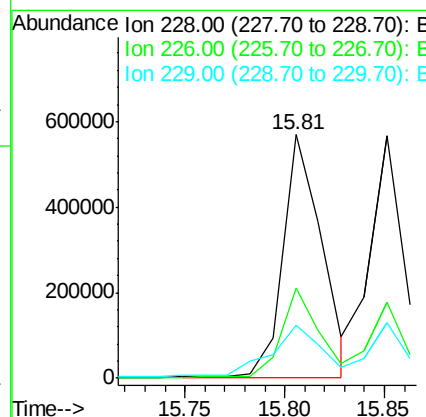
Delta R.T. -0.02 min

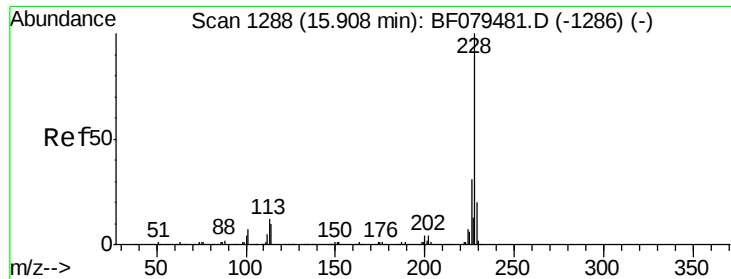
Lab File: BF079557.D

Acq: 28 May 2015 21:27



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	36.9	22.8	34.2		
229	21.6	15.9	23.9		





#82

Chrysene

Concen: 39.06 ng

RT: 15.85 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Instrument :

BNA_F

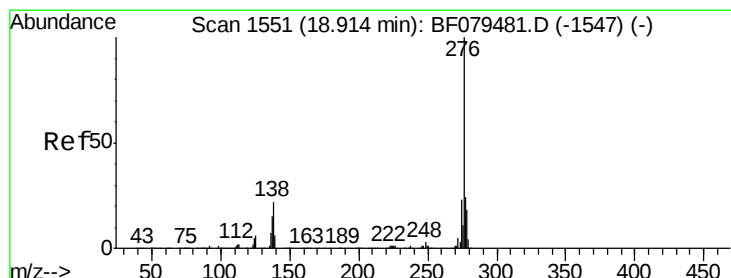
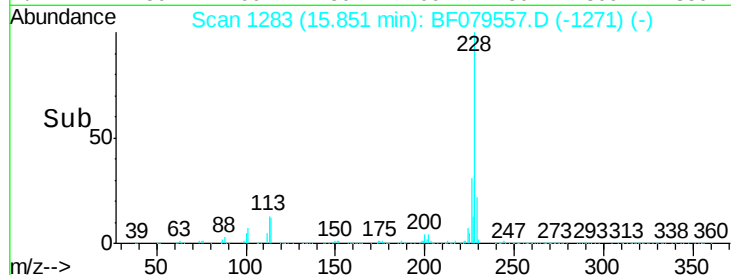
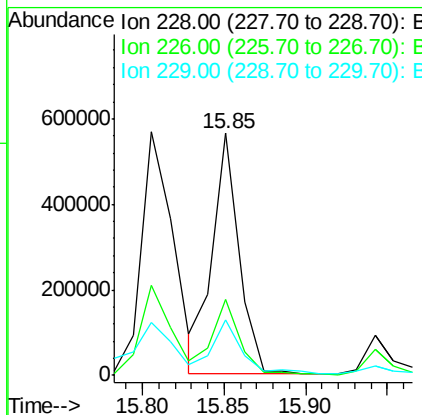
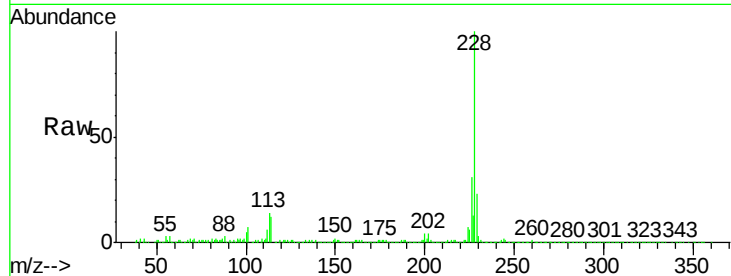
ClientSampleId :

HY-SB407A(3-3.5)

Tot Ion:	228	Resp:	638118
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.0	37.4
229	22.7	15.9	23.9

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#85

Indeno(1,2,3-cd)pyrene

Concen: 41.07 ng m

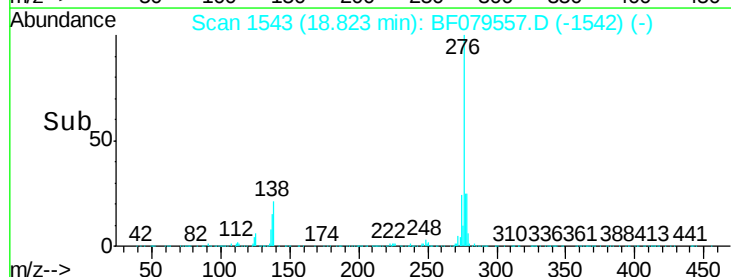
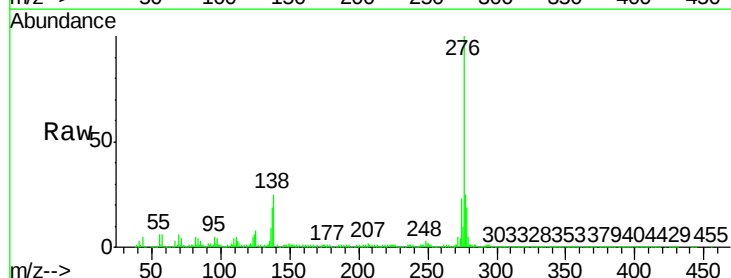
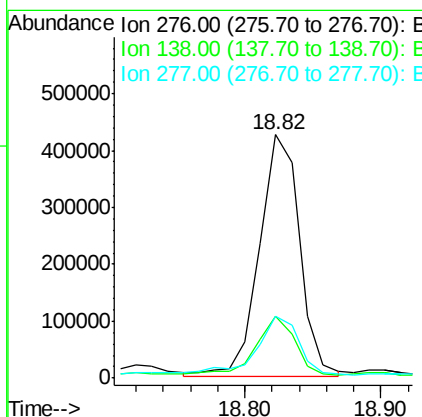
RT: 18.82 min Scan# 1543

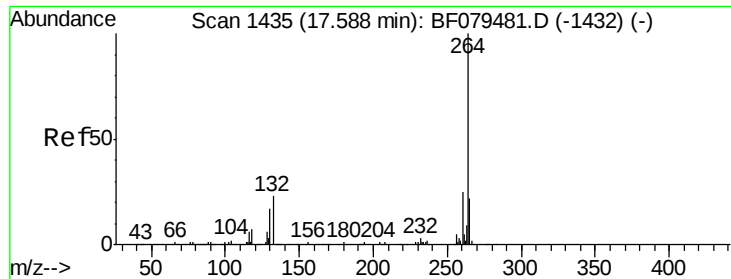
Delta R.T. -0.19 min

Lab File: BF079557.D

Acq: 28 May 2015 21:27

Tgt Ion:	276	Resp:	863107
Ion Ratio	Lower	Upper	
276	100		
138	0.0	21.4	32.2#
277	0.0	19.8	29.6#





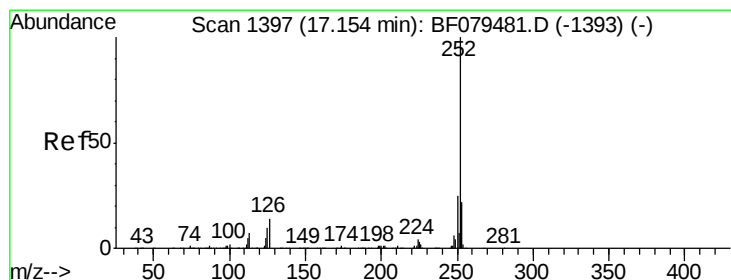
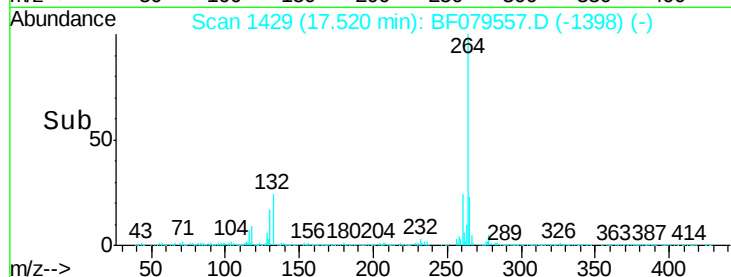
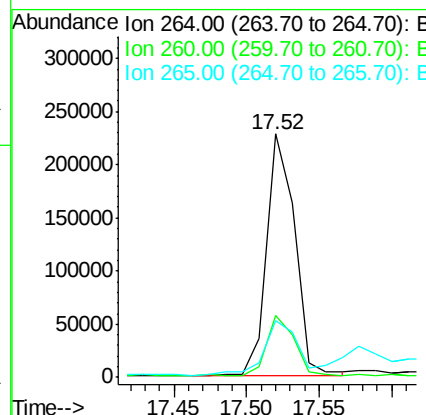
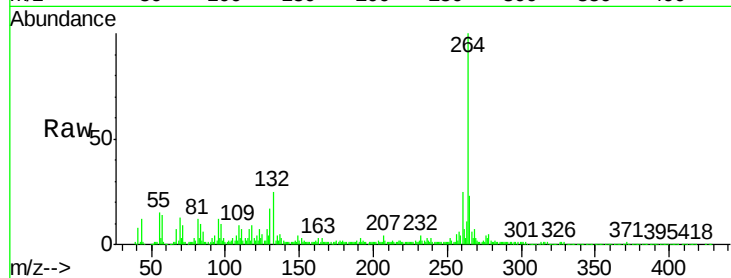
#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.52 min Scan# 1429
Delta R.T. -0.15 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.8	29.8
265	23.5	17.8	26.6

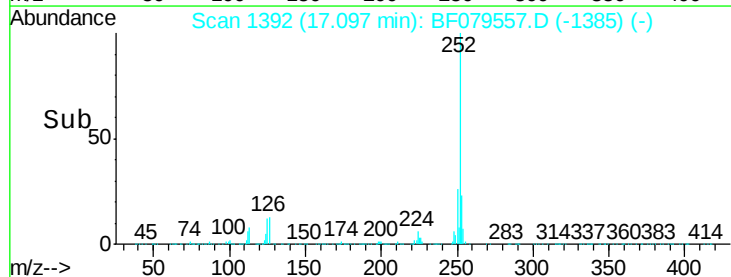
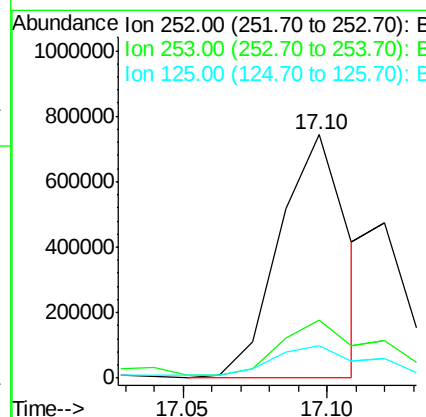
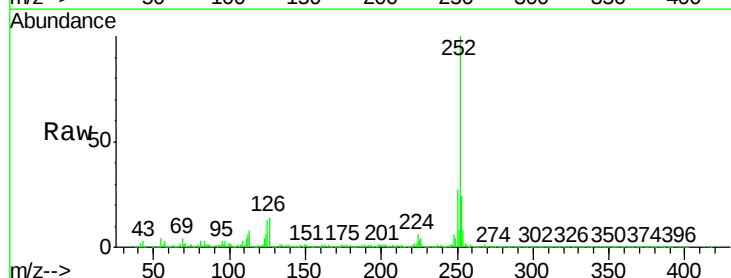
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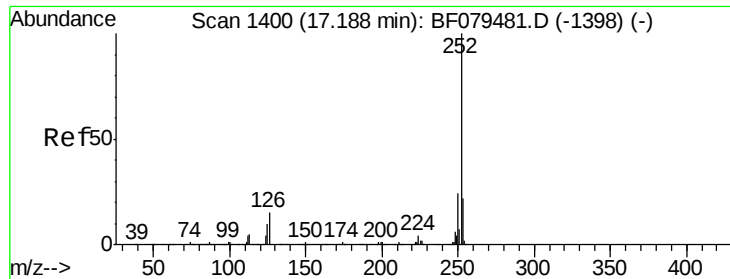
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#87
Benzo(b)fluoranthene
Concen: 70.29 ng m
RT: 17.10 min Scan# 1392
Delta R.T. -0.10 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	13.2	7.8	11.6#





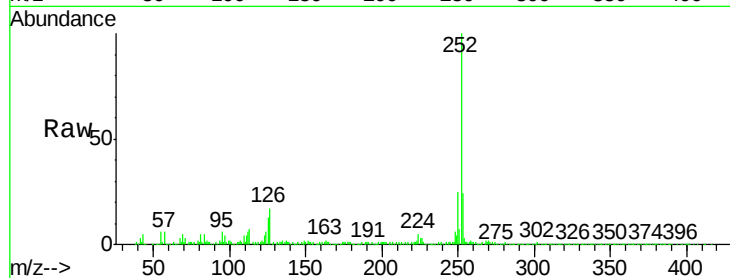
#88
Benzo(k)fluoranthene
Concen: 28.06 ng m
RT: 17.12 min Scan# 1394
Delta R.T. -0.11 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

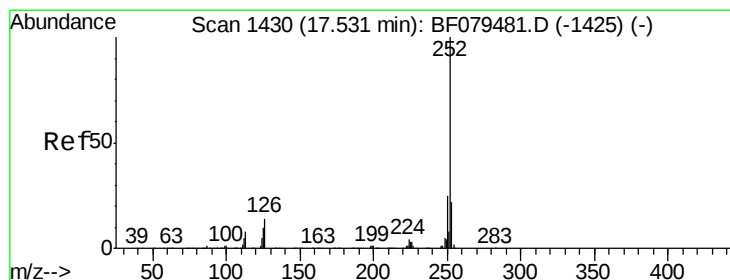
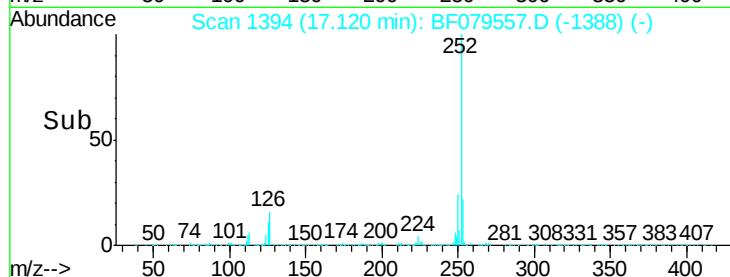
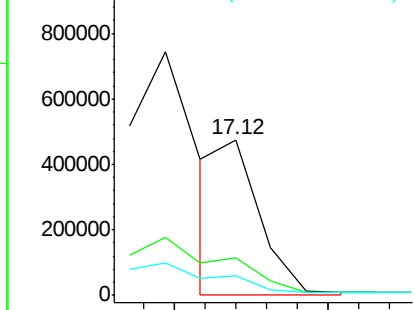
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.2	25.8
125	12.7	6.8	10.2

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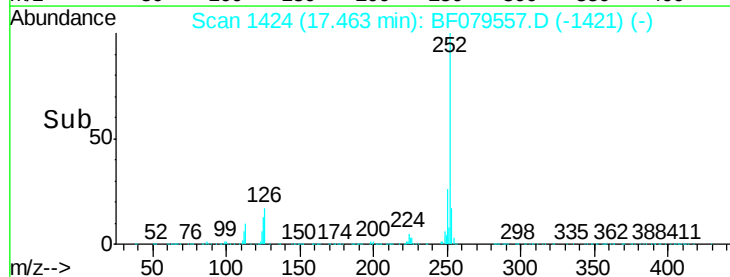
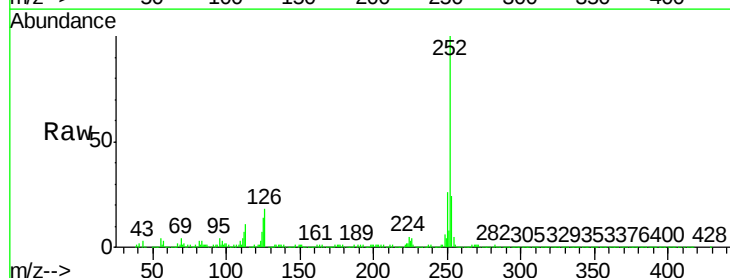
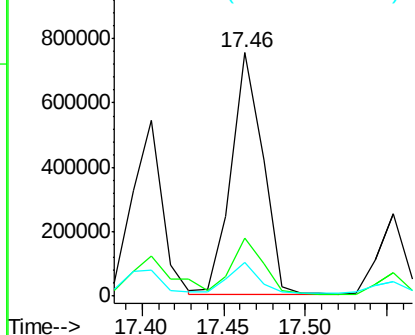
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

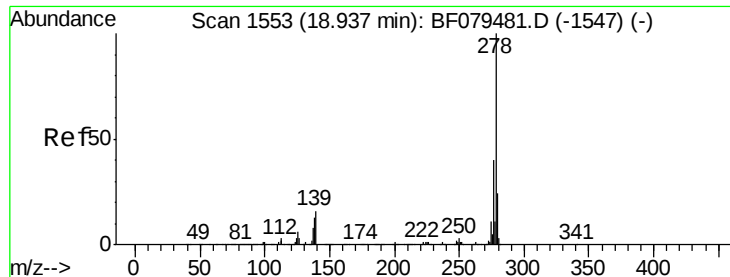


#89
Benzo(a)pyrene
Concen: 66.00 ng
RT: 17.46 min Scan# 1424
Delta R.T. -0.15 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.8
125	14.0	7.9	11.9

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





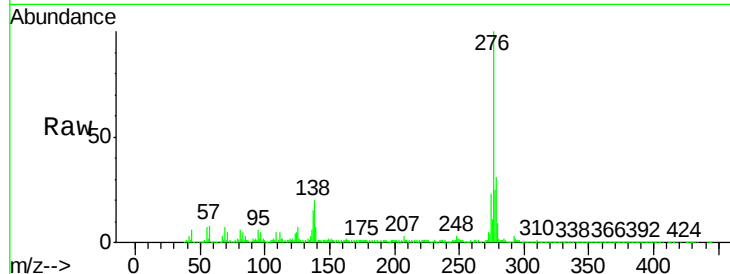
#90
Dibenzo(a,h)anthracene
Concen: 12.71 ng
RT: 18.83 min Scan# 1544
Delta R.T. -0.21 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Instrument :
BNA_F
ClientSampleId :
HY-SB407A(3-3.5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.8	12.8	19.2#
279	29.1	19.1	28.7#

Manual Integrations
APPROVED

apatel
5/29/2015 5:12:59 PM

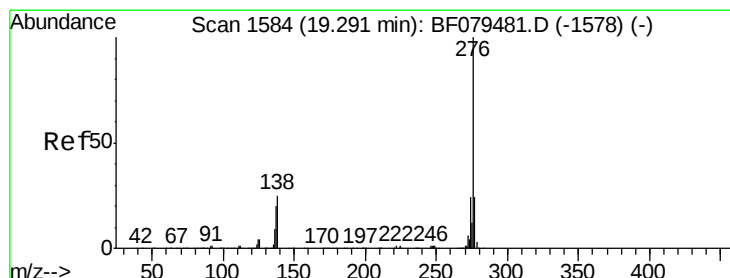
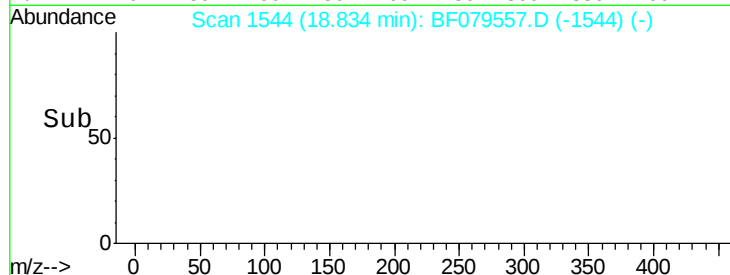
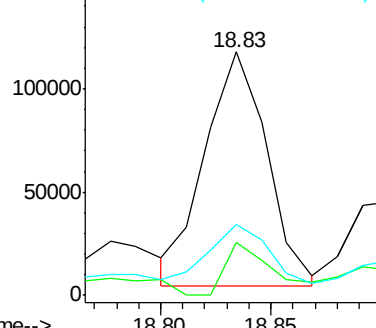


Abundance

Ion 278.00 (277.70 to 278.70): E

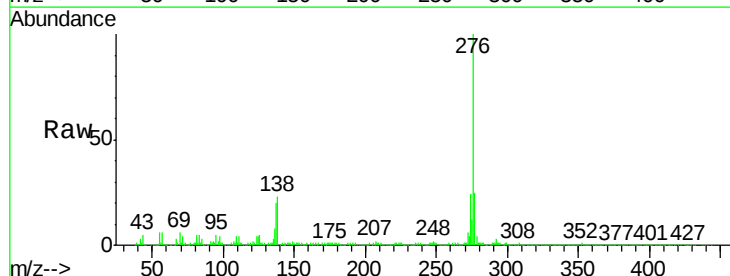
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 51.31 ng
RT: 19.21 min Scan# 1577
Delta R.T. -0.19 min
Lab File: BF079557.D
Acq: 28 May 2015 21:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.1	28.7
138	23.2	20.1	30.1



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

